

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

Open Flow **AS**
 Deliverability

Test Date:
9/7/2011

API No. 15
023-20665-00 - 00

Company Rosewood Resources, Inc.		Lease Northrup		Well Number 43-33	
County Cheyenne	Location NESE	Section 33	TWP 2S	RNG (E/W) 42W	Acres Attributed 80
Field Cherry Creek		Reservoir Niobrara		Gas Gathering Connection Branch Systems Inc.	
Completion Date 4-1-2006		Plug Back Total Depth 1766'		Packer Set at	
Casing Size 4 1/2"	Weight 10.5#	Internal Diameter 4.052	Set at 1767.06'	Perforations 1616'	To 1642'
Tubing Size NONE ? 2 3/8"	Weight	Internal Diameter	Set at 1680'	Perforations	To
Type Completion (Describe) Single (Conventional)		Type Fluid Production Dry Gas		Pump Unit or Traveling Plunger? (Yes) / No Pumping Unit	
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide		% Nitrogen .6	
Vertical Depth(H) 1642'		Pressure Taps Flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in <u>9-6</u> 20 <u>11</u> at <u>11:45</u> (AM) (PM) Taken <u>9-7</u> 20 <u>11</u> at <u>11:55</u> (AM) (PM)		Well on Line: Started <u>9-7</u> 20 <u>11</u> at <u>11:55</u> (AM) (PM) Taken <u>9-8</u> 20 <u>11</u> at <u>1:45</u> (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in 24 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						121	135.4				
Flow						37	51.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
						21		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_d)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" -----or----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow Mcfd @ 14.65 psia Deliverability Mcfd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 28 day of December, 20 11.

Witness (if any)

For Company

Checked by

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KCC WICHITA

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator Rosewood Resources, Inc.

and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.

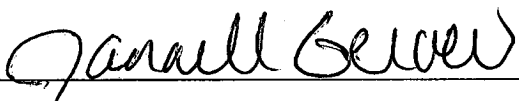
I hereby request a one-year exemption from open flow testing for the Northrup 43-33 gas well on the grounds that said well:

(Check one)

- is a coalbed methane producer
- is cycled on plunger lift due to water
- is a source of natural gas for injection into an oil reservoir undergoing ER
- is on vacuum at the present time; KCC approval Docket No. _____
- is not capable of producing at a daily rate in excess of 250 mcf/D

I further agree to supply to the best of my ability any and all supporting documents deemed by Commission staff as necessary to corroborate this claim for exemption from testing.

Date: 12/28/11

Signature: 

Title: Production Assistant

Instructions: If a gas well meets one of the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under **OBSERVED SURFACE DATA**. Shut-in pressure shall thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

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W2059

Northrup 43-33

West St. Francis

St. Francis

None ?

September-11

DATE	Tubing Casing		STATIC MCF	SPM	CYCLE	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
9/1/2011	35	48	2	6	12		13	
9/2/2011	37	50	17	6	12		14	
9/3/2011	37	50	17	6	12		13	
9/4/2011	37	50	17	6	12		12	
9/5/2011	37	50	17	6	12		13	
9/6/2011	35	48	17	6	6		14	shut well into do state test
9/7/2011	121	49	1	6	0	24	0	opened well didn't start pumping unit hp
9/8/2011	37	50	25	6	6		7	started pumping unit
9/9/2011	37	50	21	6	12		14	
9/10/2011	38	51	21	6	12		13	
9/11/2011	38	51	21	6	12		12	
9/12/2011	38	51	21	6	12		13	
9/13/2011	37	50	21	6	12		12	
9/14/2011	37	50	21	6	12		13	
9/15/2011	36	49	21	6	12		14	
9/16/2011	36	49	21	6	12		14	
9/17/2011	35	48	21	6	12		12	
9/18/2011	35	48	21	6	12		11	
9/19/2011	36	49	21	6	12		12	
9/20/2011	34	47	21	6	12		13	
9/21/2011	39	52	21	6	12		12	
9/22/2011	37	50	21	6	12		11	
9/23/2011	37	50	21	6	12		14	bucket test 6 min and greased
9/24/2011	36	49	21	6	12		13	
9/25/2011	36	49	21	6	12		12	
9/26/2011	37	50	21	6	12		13	
9/27/2011	39	52	21	6	12		14	bucket test 6 min
9/28/2011	40	53	21	6	12		13	
9/29/2011	38	51	21	6	12		12	
9/30/2011	37	50	21	6	12		13	
10/1/2011								

Total

575

366

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W2059

Northrup 43-33

West St. Francis

St. Francis

None

October-11

DATE	Tubing Casing			SPM	CYCL	DOWN	HRS	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI	STATIC MCF						
10/1/2011		37	50	21	6	12	0	13	
10/2/2011		37	50	21	6	12	0	14	
10/3/2011		36	49	21	6	12	0	13	
10/4/2011		36	49	21	6	12	0	12	
10/5/2011		35	49	21	6	12	0	13	
10/6/2011		38	52	21	6	12	0	14	bucket test 6 min
10/7/2011		42	52	21	6	12	0	12	
10/8/2011		42	49	6	6	12	0	13	
10/9/2011		36	48	2	6	12	0	14	
10/10/2011		37	48	3	6	12	0	13	replaced battery
10/11/2011		60	70	2	6	12	0	12	replaced stuffing box rubbers
10/12/2011		37	55	19	6	12	0	12	bucket test 6 min
10/13/2011		39	49	20	6	12	0	13	
10/14/2011		37	50	20	6	12	0	12	
10/15/2011		37	50	20	6	12	0	11	
10/16/2011		38	51	20	6	12	0	14	
10/17/2011		36	50	20	6	12	0	12	
10/18/2011		39	50	20	6	12	0	13	
10/19/2011		38	51	20	6	12	0	12	
10/20/2011		38	50	20	6	12	0	12	bucket test 6 min
10/21/2011		39	50	20	6	12	0	11	
10/22/2011		39	50	20	6	12	0	10	
10/23/2011		37	49	20	6	12	0	11	
10/24/2011		37	50	20	6	12	0	12	
10/25/2011		37	49	20	6	12	0	12	bucket test 6 min
10/26/2011		36	50	20	6	12	0	11	
10/27/2011		37	50	21	6	12	0	10	
10/28/2011		37	50	22	6	12	0	11	
10/29/2011		37	49	20	6	12	0	13	
10/30/2011		36	49	20	6	12	0	12	
10/31/2011		33	48	20	6	12	0	12	

Total

562

379

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W2059

Northrup 43-33

West St. Francis

St. Francis

None

November-11

DATE	Tubing Casing		STATIC MCF	SPM	CYCL	HRS DOWN	Water BBLs	REMARKS (Maximum length 110 characters)
	PSI	PSI						
11/1/2011		49	63	20	6	12	0	10
11/2/2011		47	47	14	6	12	0	11
11/3/2011		33	47	20	6	12	0	12 bucket test 6 min
11/4/2011		35	47	21	6	12	0	11
11/5/2011		35	48	20	6	12	0	10
11/6/2011		36	47	20	6	12	0	12
11/7/2011		35	48	20	6	12	0	11
11/8/2011		35	54	20	6	12	0	10
11/9/2011		35	48	20	6	12	0	12 bucket test 6 min
11/10/2011		33	48	21	6	12	0	11
11/11/2011		34	47	22	6	12	0	10
11/12/2011		34	47	20	6	12	0	13
11/13/2011		34	47	20	6	12	0	10
11/14/2011		34	47	20	6	12	0	12
11/15/2011		35	53	20	6	12	0	10
11/16/2011		33	49	20	6	12	0	11
11/17/2011		34	48	21	6	12	0	12 bucket test 6 min
11/18/2011		31	46	8	6	12	0	12 isolated and blew down meter, lool
11/19/2011		34	46	15	6	12	0	13
11/20/2011		34	48	20	6	12	0	12
11/21/2011		35	48	19	6	12	0	11
11/22/2011		35	48	10	6	12	0	12 bucket test 6 min
11/23/2011		34	49	20	6	12	0	11
11/24/2011		34	49	20	6	12	0	12
11/25/2011		33	49	20	6	12	0	13
11/26/2011		34	48	20	6	12	0	12
11/27/2011		36	48	20	6	12	0	11
11/28/2011		35	48	20	6	12	0	10
11/29/2011		35	48	20	6	12	0	11
11/30/2011		34	48	20	6	12	0	12
12/1/2011		0	0	0	0	0	0	0

Total

571

340

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